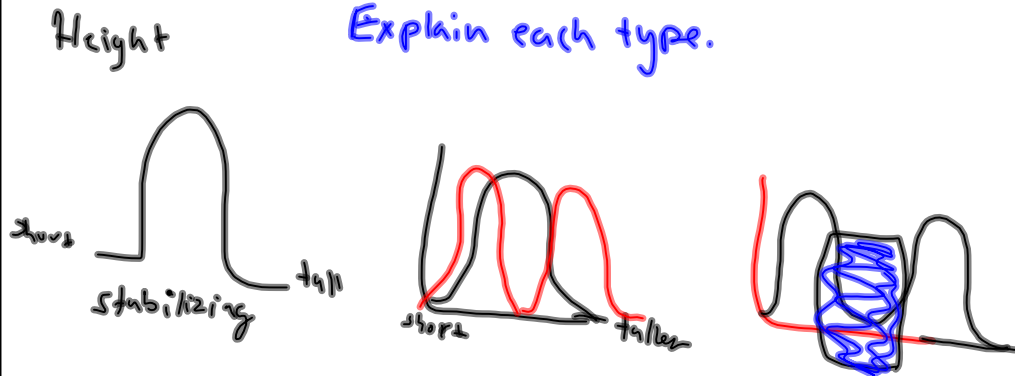


Bellringer

- What are the different "modes" of natural selection? HINT: There are 3
- Describe adaptive radiation.
- What are the different "species" concepts? Explain each type.



Mar 25-11:57 AM

Bellringer

- What are the 3 domains of life?
Provide an example of life in each domain.
- What are the ^(four) five-kingdoms of multicellular organisms? *Animalia, Plantae, Fungi, Protista (Archaea)*
- From broadest to most specific, what are the eight levels of classification? *DKPCDFGS*
- What are the two types of reproductive isolating mechanisms? Provide an example of each.

pre
post > zygotic
→ sterile offspring

niche → role → job
extinct

Mar 25-12:48 PM

Speciation Review

Grade: 12th
Subject: AP Biology
Date:

Mar 25-11:23 AM

1 A biological species...

- A always looks different from other species
- B always has a different chromosome # from that of other species
- ☒ C is reproductively isolated from other species
- D never occupies the same niche as other species

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2 Which of these is a prezygotic isolating mechanism?

- A habitat isolation
- B temporal isolation
- C hybrid sterility
- D zygote mortality
- ☒ E a and b

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3 Male moths recognize females of their species by sensing chemical signals called pheromones. This is an example of...

- A gamete isolation
- B habitat isolation
- ☒ C behavioral isolation
- D mechanical isolation
- E temporal isolation

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4 Which of these is mechanical isolation?

- A sperm cannot reach or fertilize an egg
- B courtship pattern differs
- C The organisms live in the different locals
- D the organisms reproduce at different times of the year
- ☒ E genitalia are unsuitable to each other

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5 The creation of a new species due to geographic barriers is called ...

- A isolation speciation
- ☒ B allopatric speciation
- C allelomorphic speciation
- D sympatric speciation
- E symbiotic speciation

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6 The many species of the Galapagos islands are each adapted to eating different foods. This is a result of...

- A gene flow
- B adaptive radiation
- C sympatric speciation
- D genetic drift
- E all of the above

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7 Allopatric speciation, but not sympatric speciation requires...

- A reproductive isolation
- ☒ B geographic isolation
- C spontaneous differences in males and females
- D prior hybridization
- E rapid rate of mutation

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8 Which of the following is not a characteristic of plant allopoloidy?

- A hybridization
- B chromosome doubling
- C relating species mating
- ☒ D all of these characteristics are of plant allopoloidy

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9 Corn is an allotetraploid, which means that its...

- A chromosome # is $4n$
- B occurrence resulted from hybridization
- C occurrence required geographic isolation
- ☒ D both a and b

Mar 25-11:49 AM

10 Transitional links are least likely to be found in evolution proceeds according to the ...

- A gradualistic model
- B punctuated equilibrium model

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11 Adaptive radiation is only possible if evolution is punctuated.

True

False

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12 Which of the following can influence the rapid development of new types of animals?

- A the influence of molecular clocks
- ☒ B a change in the expression of regulating genes
- C the sequential expression of genes
- D all of these are correct

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13 In the evolution of the modern horse, which was the ~~goal~~ of the evolutionary process?

- A large size
- B single toe
- C both a and b
- ☒ D neither a nor b

Mar 25-11:54 AM

14 Which statement concerning allopatric speciation would come first?

- A genetic and phenotypic changes occur
- B subspecies have a three-part name
- ☒ C two subpopulations are separated by a barrier

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Apr 1-12:57 PM